# MD SEE BELOW

## PROJECT DESCRIPTION

#### GENERAL

This project involves the modification of an existing traffic control signal at the intersection of MD 201 and Cherrywood Lane in Prince George's County. MD 201 is considered to run in a north/south direction.

#### INTERSECTION OPERATION (To remain)

This intersection currently operates in NEMA four (4) phase, full—traffic—actuated mode. There is an exclusive/permissive left turn phase for the northbound movement of MD 201. The MD 201 through movements operate concurrently. The Cherrywood Lane movement operates alone for the east movement.

An eight phase, full-traffic-actuated, system ready solid state base mounted cabinet and controller is to be installed at this location.

### EQUIPMENT LIST "B"

Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for aproval prior to installation.

#### Specifications

Quantity	Units	Section	Description	"NOTALES (TIENT) ON THE MINISTER
LUMP SUM	LS	108	Mobilization	
LUMP SUM	LS	104	Maintenance of traffic	
2	CY	205	Test pit excavation	
4	EΑ	811	Handhole	
255	LF	815	Sawout for signal loop detector	
475	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.)	
185	LF	810	5-conductor electrical cable (No. 14 A.W.G.)	
1,200	LF	810	7-conductor electrical cable (No. 14 A.W.G.)	
165	LF	810	3-wire (No. 4 A.W.G.) electrical cable	
50	<u> </u>	804	Bare copper stranded ground wire (No. 6 A.W.G.)	
2,400	LF	810	2-conductor electrical cable (No. 14 AWG aluminum shielded)	
18	LF	805	1 in. liquid light flexible non-metalic conduit for loop detector sleeve.	
90	LF.	805	3 in. polyvinylchloride (Schedule 80) electrical conduit — bored	
45	LF .	805	2 in. polyvinylchlorinde (Schedule 80) electrical conduit — tren	ched
60	LF	805	3 in. polyvinylchloride (Schedule 80) electrical – trenched	
90	LF	805	4 in. polyvinylchloride (Schedule 80) electrical conduit - trenc	hed
5	CY	801	Concrete foundation for traffic signal equipment.	
2	EΑ	804	Ground rod <sup>3</sup> 4in. diameter x 10 ft. length.	
1	EA	807	Control and distribution equipment (120/240 V, one phase, three wire system) for underground electrical service.	
150	LF	555	5 in. white pavement marking tape.	
52	LF	555	5 in. white pavement marking tape.	
220	LF	555	5 in. yellow pavement marking tape.	
72	LF	555	24 in. wide pavement marking — white for stop line.	
1	LS	SPI	As-Build for SHA USE EXISTING DISK.	
1	EA	SP	27 ft. steel pole with Twin 50'x50' mast arm (Note: four 1-3/4x9	0 in. anchor bolts)
1	EΑ	814	System ready base mounted cabinet with Controller and three (3) four channel rack mounted amplifiers.	
3	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	
1	EA	814	12 in., one-way, five section (R.Y.YA.G.GA) adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	
77.5	SF	813	R3-5R (1-EACH) — with mast arm mounting hardware D3-2 (1-EACH) — 16 in. x Var. (Cherrywood Lane) with mast arm mo R3-5L (1-EACH) — with mast arm mounting hardware R10-12 (1-EACH) — with mast arm mounting hardware	ounting hardware.
			R4-7 (1-EACH) - post mounted hardware.	
			D3-2 (1-EACH) - 12 in. x Var. (Cherrywood Lane) - wood post mou	nted.
			Shield assembly (36 in. x 51 in.) — pole mount hardware.	
			Shield assembly (36 in. x 51 in.) - pole mount hardware.	
1	EΑ		Cut, Clean and cap Mast Arm from 50' to 40' Length.	
1	EA	806	15' Lighting Bracket Arm.	
1	EA	806	250 watt HPSV Luminaire and lamp w/photo cell.	
320	LF		Grind & remove Pavement marking (hatching).	

#### EQUIPMENT LIST "C"

Existing equipment to be removed by the Contractor and delivered to the State Highway Adiministration, 7941 Connelley Drive, Hanover, Maryland, 21076.

Quantity	Units	Description
1	EA	Pole mounted cabinet with all internal computer equipment

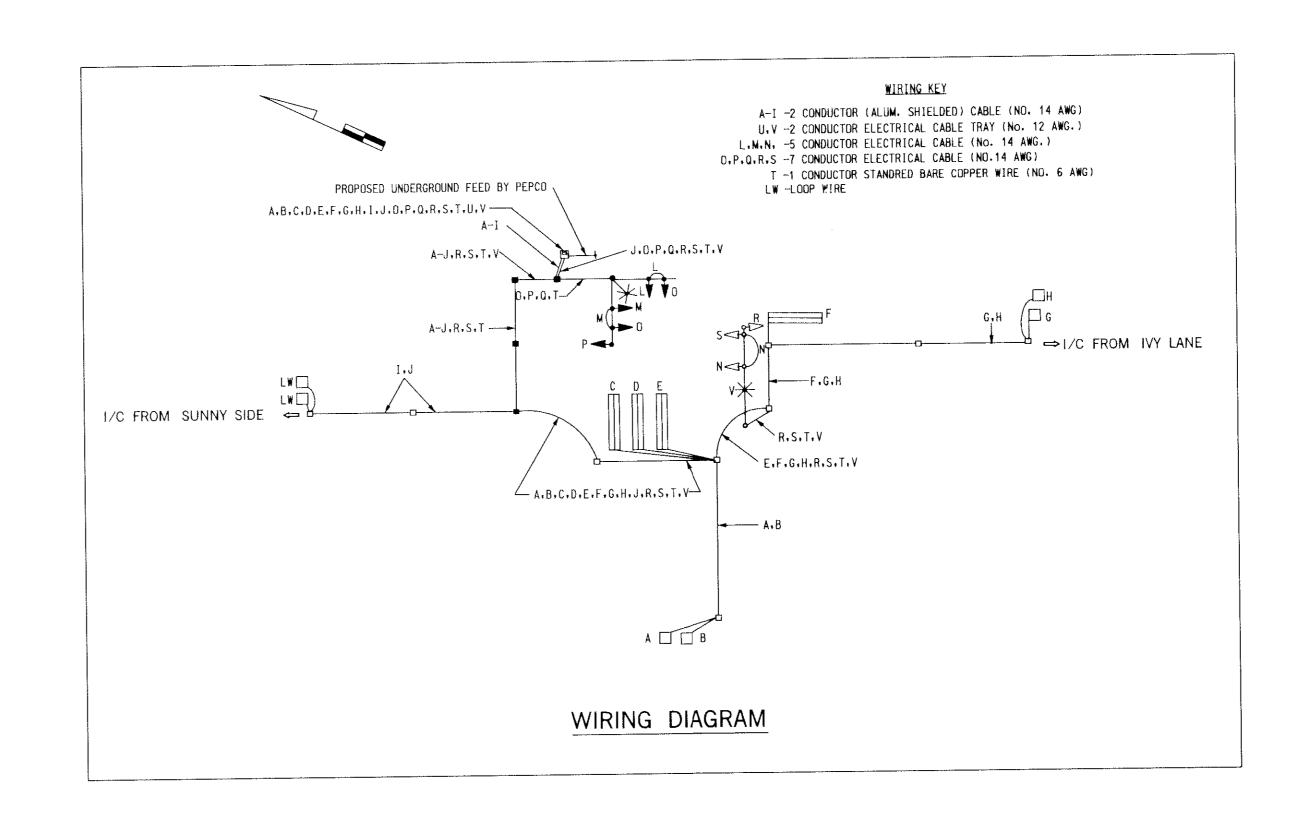
1. All equipment to be removed and not listed above shall become the property of the Contractor. 2. The Contractor shall notify the SHA at (410) 787-7652 at least three days in advance of delivery.

#### SPECIAL NOTE:

- 1. CATALOG CUTS MUST BE SUBMITTED AND ACCEPTED BY THE OFFICE OF TRAFFIC & SAFETY FOR ALL MATERIALS PRIOR TO THEIR INSTALLATION.
- 2. CONTROLLER AND CABINET SHALL BE DELIVERED TO THE SIGNAL OPERATIONS SECTION, ATTENTION MR. ED RODENHIZER, A MINIMUM OF 21 DAYS PRIOR TO THEIR INSTALLATION FOR WIRING AND TESTING.

	1 (R) (-Y-) Y) (-G-) G	2 R Y-Y-Y G-G-G	3 R Y	4 R Y G	5 R Y G	6 R Y G	7 R Y G	8 R Y G	
PHASE 1 & 6	G G-	G <b></b> G−	G	R	R	R	R	R	
1 CHANGE	G -Y-	G Y-	G	R	R	R	R	R	<b></b>
PHASE 2 & 6	G	G	G	G	G	G	R	R	
2 & 6 CHANGE	Y	Υ	Υ	Υ	Y	Υ	R	R	
PHASE 4	R	R	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	R	R	Υ	Υ	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	+

PHASE CHART



USDA		WASHINGTON AREA SERVICE CENTER					
BUILDING	NAME	BELTSVILLE OFFICE COMPLEX					
	ADDRESS	CITY STATE BELTSVILLE M.D.					
	NUMBER						
PROJECT	DESCRIPTION	OFF-SITE			ROVEMENT LANE		
2	NUMBER	PCN: 11			-		
	DRAWN BY	CKD. BY DATE					
	TITLE	SIGNAL PLAN					
I NG	TYPE	CIVIL					
DRAWING	NUMBER	3	5	43			
		TYPE	SERIES	SE	QUENCE		
	A-E CONSTRUCTION	CONTRACT NUMBER					
		100	o% SUBMI	SSIDN			
					DATE		
	<del>1</del> 0.	REV1S	ION				
	vo.	REVIS					
APPROVALS	ACC. & FIRE PREVENTION		ENCIES		CONCESSIONS		
	ACC. & FIRE PREVENTION  ARCHITECTURAL	CLIENT AG	ENCIES SPAC MANAGEI MECHAN	ICAL.	ELECTRICAL		

REVISIONS	APPROVALS  TEAM LEADER, TEDD		Office of T	ot - state highway administration e of Traffic & Safety NEERING DESIGN DIVISION				
	ASST. DIVISION CHIEF, TEDD	MI		INFORMATION HERRYWOOD L	ANE LOG MI	_E <b>:</b> 16020107.92		
		DRAWN BY: CHECK BY: NONE	F.A.P. NO S.H.A. NO COUNTY P	BW996M82 PRINCE GEORGE'S	PLAN SHEET NO.: 3405B-GI	SHEET NO.  2 OF 2		